# MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY OPERATING PERMIT TECHNICAL REVIEW DOCUMENT

# Permitting and Compliance Division 1520 E. Sixth Avenue P.O. Box 200901 Helena, Montana 59620-0901

# Northern Border Pipeline Company Compressor Station No. 3 NE¼ of the NE¼, of Section 6, Township 28 North, Range 57 East Roosevelt County, Montana

The following table summarizes the air quality programs testing, monitoring, and reporting requirements applicable to this facility.

| Facility Compliance Requirements                                   | Yes | No | Comments                 |
|--|-----|----|--------------------------|
| Source Tests Required  | X   |    | Portable analyzer        |
| Ambient Monitoring Required  |     | X  |                          |
| COMS Required  |     | X  |                          |
| CEMS Required  |     | X  |                          |
| Schedule of Compliance Required                                    |     | X  |                          |
| Annual Compliance Certification and Semiannual Reporting Required  | X   |    |                          |
| Monthly Reporting Required   |     | X  |                          |
| Quarterly Reporting Required                                       |     | X  |                          |
| Applicable Air Quality Programs                                    |     |    |                          |
| ARM Subchapter 7 Preconstruction Permitting                        | X   |    | #2974-02                 |
| New Source Performance Standards (NSPS)                            | X   |    | 40 CFR 60,<br>Subpart GG |
| National Emission Standards for Hazardous Air Pollutants (NESHAPS) |     | X  |                          |
| Maximum Achievable Control Technology (MACT)                       |     | X  |                          |
| Major New Source Review (NSR)                                      |     | X  |                          |
| Prevention of Significant Deterioration (PSD)                      |     | X  |                          |
| Risk Management Plan Required (RMP)                                |     | X  |                          |
| Acid Rain Title IV   |     | X  |                          |
| Compliance Assurance Monitoring (CAM)                              |     | X  |                          |
| State Implementation Plan (SIP)                                    | X   |    | General SIP              |

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### SECTION I. GENERAL INFORMATION

#### Α. **Purpose**

This document establishes the basis for the decisions made regarding the applicable requirements, monitoring plan, and compliance status of emission units affected by the Operating Permit proposed for this facility. The document is intended for reference during review of the proposed permit by the Environmental Protection Agency (EPA) and the public. It is also intended to provide background information not included in the Operating Permit and to document issues that may become important during modifications or renewals of the permit. Conclusions in this document are based on information provided in the letter submitted by Northern Border Pipeline Company (NBPL) on December 6, 2004.

#### В. **Facility Location**

NBPL owns and operates the Compressor Station No. 3. This facility is located in the NE¼ of the NE¼ of Section 6, Township 28 North, Range 57 East, in Roosevelt County, Montana. This site is approximately 4 miles north of Culbertson, Montana. Compressor Station No. 3 is located at an existing microwave station. The total property area covered by this facility is 20 acres. Roosevelt County is designated as an Unclassifiable/Attainment area for National Ambient Air Quality Standards (NAAQS) for all criteria pollutants.

#### C. **Facility Background Information**

## Montana Air Quality Permit History

**Permit #2974-00** was issued to NBPL for the operation of a natural gas turbine and associated equipment located in the NE¼ of the NE¼ of Section 6, Township 28 North, Range 57 East, in Roosevelt County. This facility is known as Compressor Station No. 3 and includes one (1) 40,350-hp Cooper Rolls natural gas turbine, one (1) 300-kilowatt (kW) emergency backup generator engine, one (1) 1.706-MMBtu/hr heating boiler, and one (1) 15-kW Onan emergency backup generator.

On February 21, 2001, the Montana Department of Environmental Quality (Department) received a request from NBPL for a revision of Permit #2974-00 to alter the custom fuel monitoring schedule and equipment for Compressor Station No. 3 located in Roosevelt County, Montana. The chromatograph was replaced with an hydrogen sulfide (H<sub>2</sub>S) and Total Sulfur Analyzer and the custom fuel schedule was structured to allow a representative sample to be recorded every 2 weeks with an option of extending the sampling schedule to once every 6 months as approved by the Department. **Permit #2974-01** replaced Permit #2974-00.

On March 16, 2004, the Department received a complete permit application from NBPL for changes to air quality Permit #2974-01. The changes include a modification to the original nitrogen oxide (NO<sub>X</sub>) Best Available Control Technology (BACT) determination by the Department. NBPL Source #01 (40,350-horsepower (hp) natural gas turbine) was unable to operate the dry low NO<sub>x</sub> combustion system (DLE), determined by the Department to be BACT, every hour and at all conditions for which the turbine operates. The modification allowed NBPL to operate Source #01 up to 750 hours per year while the DLE was not in operation. Reasons for non-DLE operation shall include only start-up and shutdown, when operation is required during downstream maintenance requirements, and operation during low ambient temperatures at the site. New carbon monoxide (CO) emissions limits for Source #01 of 460 lb/hr when the ambient temperature is 20 degrees Fahrenheit or colder, 56 lb/hr when the ambient temperature is 20 degrees Fahrenheit or warmer, and 109.5 tons per rolling 12-month time period replaced Section

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### Title V Operating Permit History

On December 23, 1996, NBPL submitted a complete permit application to construct and operate Compressor Station No. 3 in Roosevelt County, Montana. This facility consists of one 40,350-hp Cooper-Rolls, 6562-DLE Coberra; one 245-kW emergency backup generator engine; one 1.706-MMBtu/hr hydronic boiler; and one 15-kW emergency backup generator. The application stated the estimated start date as 8/97 and the estimated completion date as 11/98. A preconstruction permit was issued for this facility on 3/9/97. This facility had the potential to emit greater than 100 tons per year of NOx and was therefore required to obtain an operating permit. This facility was a NSPS Subpart GG affected source because the Cooper-Rolls Coberra meets the definition of a stationary gas turbine and was manufactured after October 3, 1997. The Cooper-Rolls Coberra will have an internal dry low NO<sub>x</sub> combustion as its control device, which constitutes BACT for this facility. Operating Permit #OP2974-00 was issued final and effective September 10, 1998.

On February 21, 2001, the Department received a request from Northern Border Pipeline Company (NBPL) for a revision of Permit #2974-00 and #OP2974-00 to alter the custom fuel monitoring schedule and equipment for Compressor Station No. 3 located in Roosevelt County, MT. The chromatograph was replaced with an H<sub>2</sub>S and Total Sulfur Analyzer and the custom fuel schedule was structured to allow a representative sample to be recorded every 2 weeks with an option of extending the sampling schedule to once every six months as approved by the Department. Operating Permit #OP2974-01 replaced Operating Permit #OP2974-00.

On October 9, 2001, the Department received a request from NBPL for a modification to Operating Permit #OP2974-01. The modification was an administrative amendment, which changed the responsible official for the facility. Operating Permit #OP2974-02 replaced Operating Permit #OP2974-01.

On February 3, 2003, the Department received a request from NBPL for a modification to Operating Permit OP2974-02. The modification was an administrative amendment, which changed the responsible official and the corporate office address for the facility. **Operating** Permit #OP2974-03 replaced Operating Permit #OP2974-02.

On February 3, 2003, the Department received a request from NBPL for a modification to Operating Permit #OP2974-03. The modification was an administrative amendment. The responsible officials name was changed in error on Operating Permit #OP2974-03. Operating Permit OP2974-04 changed the responsible official from Jay Muschenheim back to Randy Rice and changed the facility contact from Ruth Jensen to Jay Muschenheim. Operating Permit #OP2974-04 replaced Operating Permit #OP2974-03.

On October 17, 2003, the Department received a request from NBPL for an administrative amendment of OP2797-04 to update Section V.B.3 of the General Conditions incorporating changes to federal Title V rules 40 CFR 70.6(c)(5)(iii)(B) and 70.6(c)(5)(iii)(C) (to be incorporated into Montana's Title V rules at ARM 17.8.1213) regarding Title V annual compliance certifications. Operating Permit #OP2974-05 replaced Operating Permit #OP2974-04.

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On March 11, 2003, the Department received a renewal application from NBPL. The Department has been in the process of permitting action #2974-02 and waited until the completion of permitting action #2974-02 to proceed with the renewal. Permit action #2974-02 was final June 18, 2004. Operating Permit #OP2974-06 replaced Operating Permit #OP2974-05.

On December 6, 2004, the Department received a request from NBPL for an administrative amendment to Operating Permit OP2974-06. The administrative amendment changed the responsible official from Randy Rice to Michel E. Nelson. Permit #OP2974-07 replaced Permit #OP2974-06.

#### D. **Current Permit Action**

On April 9, 2007, the Department received a request from NBPL for an administrative amendment to Operating Permit #OP2974-07. The administrative amendment changed the responsible official from Michel E. Nelson to Jim Krause. Permit #OP2974-08 replaces Permit #OP2974-07.

#### Ε. **Taking and Damaging Analysis**

HB 311, the Montana Private Property Assessment Act, requires analysis of every proposed state agency administrative rule, policy, permit condition or permit denial, pertaining to an environmental matter, to determine whether the state action constitutes a taking or damaging of private real property that requires compensation under the Montana or U.S. Constitution. As part of issuing an Operating Permit, the Department is required to complete a Taking and Damaging Checklist. As required by 2-10-101 through 105, MCA, the Department has conducted a private property taking and damaging assessment and has determined there are no taking or damaging implications. The checklist was completed on October 20, 2003.

#### F. **Compliance Designation**

The facility was inspected May 26, 2005, based on the results of the inspection and all the material reviewed in the Department's files indicates that the facility appears to be in compliance with all the applicable requirements.

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### SECTION II. SUMMARY OF EMISSION UNITS

#### **Facility Process Description** Α.

The NBPL Compressor Station No. 3 is a natural gas pipeline transmission station with one Cooper-Rolls Coberra, natural gas fired turbine. A hot water boiler provides the heat to the various station facilities.

The Standard Industrial Classification (SIC) for this facility is "Natural Gas Transmission" which has an SIC Code of 4922.

#### В. **Emission Units and Pollution Control Device Identification**

The NBPL Compressor Station No. 3 application identified one 40,350 hp Cooper-Rolls Coberra 6562 Compressor Turbine, one 245-kW emergency backup generator engine, and one 1.67-MMBtu/hr hydronic boiler.

The Cooper-Rolls Coberra will contain a dry low NO<sub>X</sub> combustion system, as part of the turbine design, this design and operating practice constitutes BACT for this facility. No pollution control devices exist on the emergency backup generator engine or the hydronic boiler.

#### C. **Categorically Insignificant Sources/Activities**

The Administrative Rules of Montana ((ARM) 17.8.120 (22)(a)) defines an insignificant emissions unit as one that emits less than 5 tons per year of any regulated pollutant, has the potential to emit less than 500 pounds per year of lead or any hazardous air pollutant, and is not regulated by an applicable requirement other then a generally applicable requirement.

This facility has a 1.67-MMBtu/hr Hydronic Boiler, used for heating buildings and fuel preheat as needed. This boiler meets the definition of insignificant emissions unit.

| Emissions Unit ID | Description                                   |
|-------------------|---|
| IEU01             | 1.67-MMBtu/hr natural gas fired heater boiler |
| IEU02             | In-plant vehicle traffic                      |
| IEU03             | Fugitive emissions                            |

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### SECTION III. PERMIT CONDITIONS

### A. Emission Limits and Standards

Emission limits for the 40,350 hp Cooper-Rolls Coberra Compressor Turbine were established by a BACT determination under the authority of ARM 17.8.715 (the predecessor to ARM 17.8.752). The compressor turbine has an emission limit of 40 ppm $_{vd}$ , 51.5 lb/hr and 78 lb/hr for NO $_{x}$ ; 460 lb/hr, 56 lb/hr, and 109.5 ton per rolling 12-month time period for CO; and 3.00 lb/hr for VOC. Sulfur content in the fuel shall not exceed 0.08% by weight and sulfur dioxide content in the fuel shall not exceed 0.015% by volume at 15% oxygen on a dry basis. The emergency generator engine is limited to 500 hours of operation per year in order to comply with the EPA definition of an "emergency back up generator."

NBPL shall comply with all applicable standards, limitations, and the reporting, recordkeeping, and notification requirements contained in 40 CFR Part 60, Subpart GG unless otherwise specified (ARM 17.8.340 and 40 CFR Part 60).

The emission units at this facility are not subject to any current MACT or NESHAP standards. This facility is not subject to PSD regulations.

# **B.** Monitoring Requirements

ARM 17.8.1212(1) requires that all monitoring and analysis procedures or test methods required under applicable requirements are contained in Operating Permits. In addition, when the applicable requirement does not require periodic testing or monitoring, periodic monitoring must be prescribed that is sufficient to yield reliable data from the relevant time period that is representative of the source's compliance with the permit.

The requirements for testing, monitoring, recordkeeping, reporting, and compliance certification sufficient to assure compliance does not require the permit to impose the same level of rigor for all emission units. Furthermore, it does not require extensive testing or monitoring to assure compliance with the applicable requirements for emission units that do not have significant potential to violate emission limitations or other requirements under normal operating conditions. When compliance with the underlying applicable requirement for a insignificant emissions unit is not threatened by lack of regular monitoring and when periodic testing or monitoring is not otherwise required by the applicable requirement, the status quo (i.e., no monitoring) will meet the requirements of ARM 17.8.1212(1). Therefore, the permit does not include monitoring for insignificant emission units.

The permit includes periodic monitoring or recordkeeping for each applicable requirement. The information obtained from the monitoring and recordkeeping will be used by the permittee to periodically certify compliance with the emission limits and standards. However, the Department may request additional testing to determine compliance with the emission limits and standards.

### C. Test Methods and Procedures

NBPL shall conduct an emissions test with a portable analyzer in order to determine the  $NO_X$  emissions from the turbine once every six months. The portable analyzer shall be capable of achieving performance specifications equivalent to EPA traditional methods defined in 40 CFR 60, Appendix A, or shall be capable of meeting the requirements of EPA Conditional Test Method 022 for the "Determination of Nitric Oxide, Nitrogen Dioxide, and  $NO_X$  Emissions from Stationary Combustion Sources by Electrochemical Analyzer." NBPL shall monitor compliance with the  $NO_X$  and CO limitations by converting the emissions test results (ppm) to a mass emissions rate (lb/hr). Stack gas flow rates shall be determined using EPA Test Methods in 40 CFR 60, Appendix A. NBPL may use another testing procedure as approved in advance by the Department (ARM 17.8.105 and ARM 17.7.106).

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# D. Recordkeeping Requirements

The permittee is required to keep all records listed in the Operating Permit as a permanent business record for at least 5 years following the date of the generation of the record.

# E. Reporting Requirements

Reporting requirements are included in the permit for each emissions unit and Section V of the Operating Permit "General Conditions" explains the reporting requirements. However, the permittee is required to submit semi-annual and annual monitoring reports to the Department and to annually certify compliance with the applicable requirements contained in the permit. The reports must include a list of all emission limit and monitoring deviations, the reason for any deviation, and the corrective action taken as a result of any deviation.

# SECTION IV. NON-APPLICABLE REQUIREMENT ANALYSIS

Section IV of the Operating Permit "Non-applicable Requirements" contains the requirements that the Department determined were non-applicable. The following table summarizes the requirements that NBPL identified as non-applicable and contains the reasons that the Department did not include these requirements as non-applicable in the permit.

# **Requirements Not Identified in the Operating Permit**

| App  | plicable Requirement   | Reason   |  |
|--|--|--|--|
|  | Subchapter 1 Genera  | l Provisions   |  |
| ARM 17.8.101<br>ARM 17.8.102<br>ARM 17.8.103   | Definitions Incorporation by Reference - Publication Dates and Availability of Referenced Documents Incorporation by Reference   | These rules consist of either a statement of purpose, applicability statement, regulatory definitions or a statement of incorporation by reference. These types of rules do not have specific requirements associated with them. |  |
| Subchapter 2 Ambient Air Quality   |  |  |  |
| ARM 17.8.201<br>ARM 17.8202  | Definitions Incorporation by Reference   | These rules consist of either a statement of purpose, applicability statement, regulatory definitions or a statement of incorporation by reference. These types of rules do not have specific requirements associated with them. |  |
| ARM 17.8.205 ARM 17.8.206 ARM 17.8.210  ARM 17.8.211  ARM 17.8.212  ARM 17.8.213  ARM 17.8.214  ARM 17.8.220  ARM 17.8.221  ARM 17.8.221  ARM 17.8.222  ARM 17.8.223  ARM 17.8.230 | Enforceability Methods and Data Ambient Air Quality Standard for Sulfur Dioxide Ambient Air Quality Standard for Nitrogen Dioxide Ambient Air Quality Standard for Carbon Monoxide Ambient Air Quality Standard for Ozone Ambient Air Quality Standard for Hydrogen Sulfide Ambient Air Quality Standard for Settled Particulate Matter Ambient Air Quality Standard for Visibility Ambient Air Quality Standard for Lead Ambient Air Quality Standard for Lead Ambient Air Quality Standard for PM <sub>10</sub> Fluoride in Forage | These rules are always applicable to a major source and may contain specific requirements for compliance. However, these rules have been excluded as an applicable requirement (ARM 17.8.1202).                                  |  |
|  | Subchapter 3 Emission  | n Standards  |  |
| ARM 17.8.326   | Prohibited Materials for Wood or<br>Coal Residential Stoves  | This regulation may not be applicable to the source at this time; however, it may become applicable during the life of the permit.   |  |
| ARM 17.8.330   | Definitions  | This rule consists of either a statement of purpose, applicability statement, regulatory definition or a statement of incorporation by reference. These types of rules do not have specific requirements associated with them.   |  |

| Applio   | cable Requirement   | Reason   |  |  |
|--|---|--|--|--|
| Subchapter 4 Stack Heights   |   |  |  |  |
| ARM 17.8.401   | Definitions   | This rule consists of either a statement of purpose, applicability statement, regulatory definition or a statement of incorporation by reference. These types of rules do not have specific requirements associated with them.             |  |  |
| ARM 17.8.402<br>ARM 17.8.403   | Requirements<br>Exemptions  | These are procedural rules that have specific requirements that may become relevant to a major source during the permit span.  |  |  |
| Subchapter 5 Air Quality Permit Application, Operation and Open Burning Fees |   |  |  |  |
| ARM 17.8.504<br>ARM 17.8.514<br>ARM 17.8.515                                 | Air Quality Permit Application Fees Air Quality Open Burning Fees Air Quality Open Burning Fees for Conditional, Emergency, Christmas Tree Waste, and Commercial Film Production Open Burning Permits | These are procedural rules that have specific requirements that may become relevant to a major source during the permit span   |  |  |
|  | Subchapter 6 Open Burning   |  |  |  |
| ARM 17.8.606<br>ARM 17.8.611<br>ARM 17.8.612                                 | Minor Open Burning Requirements Emergency Open Burning Permits Conditional Air Quality Open Burning Permits   | The following regulations may not be applicable to the source at this time, however, these regulations may become applicable during the life of the permit.  |  |  |
| Subchap  | ter 7 Permit, Construction and Open   | ration of Air Contaminant Sources  |  |  |
| ARM 17.8.740 et seq.   | Permit, construction and operation of air contaminant sources   | The following regulations may not be applicable to the source at this time; however, these regulations may become applicable during the life of the permit.  |  |  |
|  | Subchapter 8 Prevention of Sign   | nificant Deterioration   |  |  |
| ARM 17.8.825<br>ARM 17.8.826   | Sources Impacting Federal Class<br>I Areas -Additional Requirements<br>Public Participation   | These rules do not have specific requirements for major sources because they are requirements for EPA or state and local authorities. Furthermore, these rules can be used as authority to impose specific requirements on a major source. |  |  |
| ARM 17.8.804   | Ambient Air Increments  | The following regulations may not be applicable to the source at this time, however, these regulations may become applicable during the life of the permit   |  |  |
| Subchapter 9 Permit I  | Requirements for Major Stationary<br>Nonattainment  | Sources or Major Modifications Located Within Areas  |  |  |
| ARM 17.8.901<br>ARM 17.8.902   | Definitions Incorporation by Reference  | These rules consist of either a statement of purpose, applicability statement, regulatory definitions or a statement of incorporation by reference. These types of rules do not have specific requirements associated with them.           |  |  |
| ARM 17.8.904   | When Air Quality Preconstruction<br>Permit Required   | These regulations are state regulations, which may not be applicable to the source at this time;   |  |  |

| Арр   | olicable Requirement  | Reason   |
|---|---|--|
| ARM 17.8.905<br>ARM 17.8.906  | Additional Conditions of Air<br>Quality Preconstruction Permit<br>Baseline for Determining Credit<br>for Emissions and Air Quality<br>Offsets   | however, these regulations may become applicable during the life of the permit.  |
| Subchapter 1  | 0 Preconstruction Permit Requiremen<br>Modifications Located Within Attain  | ts for Major Stationary Sources or Major<br>ment or Unclassified Areas   |
| ARM 17.8.1001<br>ARM 17.8.1002  | Definitions Incorporation by Reference  | These rules consist of either a statement of purpose, applicability statement, regulatory definitions or a statement of incorporation by reference. These types of rules do not have specific requirements associated with them.           |
| ARM 17.8.1004 ARM 17.8.1005 ARM 17.8.1006 ARM 17.8.1007                                   | When Air Quality Preconstruction Permit Required Additional Conditions of Air Quality Preconstruction Permit Review of Specified Sources for Air Quality Impact Baseline for Determining Credit for Emissions and Air Quality Offsets | These regulations may not be applicable to the source at this time, however, these regulations may become applicable during the life of the permit.  |
|   | Subchapter 11 Visibility In   | npact Assessment   |
| ARM 17.8.1101<br>ARM 17.8.1103  | Definitions ApplicabilityVisibility Requirements  | These rules consist of either a statement of purpose, applicability statement, regulatory definitions or a statement of incorporation by reference. These types of rules do not have specific requirements associated with them.           |
| ARM 17.8.1108<br>ARM 17.8.1109  | Notification of Permit Application Adverse Impact and Federal Land Management   | These rules do not have specific requirements for major sources because they are requirements for EPA or state and local authorities. Furthermore, these rules can be used as authority to impose specific requirements on a major source. |
|   | Federal Require   | ements   |
| Quality Standards<br>40 CFR 51 Requirements<br>Submittal of Implements                    | Primary and Secondary Ambient Air<br>ents for Preparation, Adoption, and<br>entation Plans<br>Air Quality Surveillance  | These rules do not have specific requirements for major sources because they are requirements for EPA or state and local authorities. Furthermore, these rules can be used as authority to impose specific requirements on a major source  |
| Plans 40 CFR 62 Approval Designated Facilities 40 CFR 70 and 71 Sta                       | and Promulgation of Implementation and Promulgation of State Plans for and Pollutants ate Operating Permit Programs and Federal Operating Permit Programs   | These rules contain requirements for regulatory authorities and not major sources; these rules can be used to impose specific requirements on a major source.  |
|   |   | These regulations may not be applicable to the source at this time; however, these regulations may become applicable during the life of the permit.  |
| 40 CFR 61, Subpart M National Emissions Standards for Hazardous Air Pollutants - Asbestos |   | This is a federal regulation that has specific procedural requirements that may become relevant to the major source during the permit term.  |

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| Applicable Requirement                  | Reason   |
|---|--|
| 40 CFR 63, Subpart A General Provisions | These federal regulations consist of an applicability statement. These regulations may not be applicable to the source at this time; however, these regulations may become applicable during the life of the permit. |

### SECTION V. FUTURE PERMIT CONSIDERATIONS

### A. MACT Standards

As of the date of decision of OP2974-08, the Department is unaware of any future MACT Standards that may be promulgated that will affect this facility.

### B. NESHAP Standards

As of the date of decision of OP2974-08, the Department is unaware of any future NESHAP Standards that may be promulgated that will affect this facility.

# C. NSPS Standards

As of the date of decision of OP2974-08, this facility is subject to 40 CFR 60, Subpart GG, Standards of Performance for Stationary Gas Turbines.

# D. Risk Management Plan

As of the date of decision of OP2974-08, the Risk Management Plan definition of stationary source (40 CFR 68.3) excludes transportation facilities subject to oversight or regulation under 49 CFR, Part 192. Compressor Station No. 1 is subject to regulation under 40 CFR, Part 192. Consequently, this facility is not required to submit a Risk Management Plan.